Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 129, No. 2 (1989) 479–482

Index to Volume 129

No. 1

Y. Liritzis, Y. Maniatis (Athens, Greece)
ESR experiments on quaternary calcites and bones for dating purposes 3

Y. Terakado, T. Fujitani, J. Takada (Kobe, Ashiya and Osaka, Japan)
Precise determination of rare earth elements in rocks by neutron activation analysis 23

B. Van Gansbeke, O. Jeghers, A. M. Ermans, A. Schoutens (Brussels, Belgium)
Paper and ITLC chromatography of ^{99m}Tc radiopharmaceuticals: an explanation for some artefacts 33

Z. B. Alfassi, Sh. Mosseri, W. Fürst (Beer-Sheva, Israel and München, FRG)
Radiation chemistry of CF_2Cl_2 in the gas and liquid phases: effect of dose rate 43

J. Kalousková, K. Drábek, L. Pavlík, F. Hodík (Prague, Czechoslovakia)
Radiochemical separation of ^{75}Se with o-phenylenediamine for instrumental neutron activation analysis of selenium in biological materials 59

M. Mufazzal Saeed, Akbar Ali, Munir Ahmad, M. N. Cheema, I. H. Qureshi (Islamabad, Pakistan)
Synergic extraction of Pr(III), Ho(III) and Er(III) with a mixture of 2-thenoyltrifluoroacetone and tribenzylamine 69

T. Sato (Ibaraki, Japan)
Volatilization behaviour of ruthenium from boiling nitric acid 77

B. Vanloo, K. Strijckmans, R. Dams (Gent, Belgium)
Determination of nickel in copper by proton activation analysis 85

N. Lavi, F. Lux, Z. B. Alfassi (Yavne, Israel, Garching, FRG and Beer-Sheva, Israel)
Determination of Mg, Al, P, Cu and Mn in biological fluids by neutron activation analysis 93

M. Czauderna (Warsaw, Poland)
Digital method of net peak area determination in activation analysis 103

N. Vučić, Z. Ilić (Beograd, Yugoslavia)
Extraction and spectrophotometric determination of uranium in pohosphate fertilizers 113

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

INDEX TO VOLUME 129

N. Wada (Ibaraki-ken, Japan)
On-stream measurement of heavy water concentration by intermediate neutron moderation 121

M. P. Menon, J. James, R. Abbas (Savannah, Georgia, USA)
Solubility products, thermodynamic functions and stability constants for the praseodymium and ytterbium fluoride – water systems 133

M. Kosmùlski (Lublin, Poland)
Adsorption of CsOH on controlled porous glasses 149

R. J. Batra, A. N. Garg (Nagpur, India)
Gamma radiolytic decomposition of solid binary mixtures of potassium nitrate with halides 155

H. G. Fakhouri, N. A. Dyson (Birmingham, England)
(d, p) reactions and the combination of PIXE – PIGME techniques for the analysis of biomass samples 163

J. Szczypa, A. L. Dawidowicz, R. Sprycha, P. Golkiewicz (Lublin, Poland)
Investigation of electrical properties of the electrical double layer on porous glasses 171

R. A. Pacer, T. J. Weber (Fort Wayne, Indiana, USA)
The role of ^{210}Pb in evaluating container adsorption of Pb(II) from dilute aqueous solutions 181

C. Testa, D. Desideri, M. A. Meli, S. Bazzarri (Urbino and Rome, Italy)
Separation and determination of uranium and radium-226 in phosphorites and their industrial derivatives by extraction chromatography 191

Review

M. Rakovíč, N. Pileckd (Prague, Czechoslovakia)
Nuclear interactions used in in vivo activation analysis 201

Bibliographic Collection

E. Bujdosó (Budapest, Hungary)
Analysis by nuclear reactions and activation 207

No. 2

Proceedings of the International Conference on the Separation of Ionic Solutes (SIS' 87)

R. Čech, F. Macášek (Bratislava, Czechoslovakia)
Preface 227

A. Petru, P. Rajec, R. Čech, J. Kuruc (Bratislava, Czechoslovakia)
Determination of radiolytic products of two-phase tributylphosphate – water systems by capillary isotachophoresis 229

F. Macášek (Bratislava, Czechoslovakia)
Membrane extraction instead of solvent extraction. What does it give? 233

I. I. Shuktomova, I. G. Kochan (Syktyvkar, USSR)
Combination of ion exchange and electrodeposition as a method of separation and preconcentration of U and Th isotopes for their alpha-spectrometric determination in rock, soil and plant 245

J. Szymanowski, K. Prochaska (Poznań, Poland)
Interfacial activity of hydroxyoximes and the reaction order of copper extraction in toluene/water system 251

G. Gulis (Trnava, Czechoslovakia)
Separation of cesium from intermediate level liquid radioactive waste by solvent extraction with antioxidants 265

J. Timulák (Trnava, Czechoslovakia)
Effect of solidified salts on ^{137}Cs leaching from bituminized products 273

J. Koryta, M. Skalický (Prague, Czechoslovakia)
Electrolysis at the interface of two immiscible electrolyte solutions and extraction kinetics 279

M. Prazsky, A. Adamek, J. Binka (Trnava, Czechoslovakia)
Determination of oxidation states of uranium and plutonium in cooling solution of spent fuel element assemblies from NPP A–1 289

R. Kopunec, J. Kovalancik (Bratislava, Czechoslovakia)
Separation of cerium and europium by extraction with tributyl phosphate and di(2-ethylhexyl)phosphoric acid in n-alkane from nitrate solutions 295

D. Kaniansky, P. Rajec, A. Švec, J. Marák, M. Kovaľ, M. Lúčka, Š. Franko, G. Sabanoš (Bratislava and Spišská Nová Ves, Czechoslovakia)
On-column radiometric detector for capillary isotachophoresis 305

End of the Proceedings of (SIS'87)

S. M. Al-Jobori, Y. A. H. Kettaneh (Baghdad, Iraq)
Determination of rare earth elements in phosphorites by neutron activation analysis 327

R. J. Batra, A. N. Garg (Nagpur, India)
Thermal neutron activation analysis of Cu in its ores by using an ^{241}Am–Be neutron source 335

S. Jovanović, P. Vukotić, B. Smodiš, R. Jaćimović, N. Mihaljević, P. Stegnar (Titograd and Ljubljana, Yugoslavia)
Epithermal neutron flux characterization of the TRIGA MARK II reactor, Ljubljana, Yugoslavia, for use in NAA 343

B. B. Radak, Lj. T. Petkovska, Š. S. Miljanić (Belgrade, Yugoslavia)
CO_2-laser photoacoustic detection of heavy water vapour. Basic principles 351

INDEX TO VOLUME 129

K. Samochocka, J. Konecki, M. Głowacka (Warsaw and Zabrze, Poland)
Effect of L-ascorbic acid on the bioretention of ^{169}Yb 361

A. Zararsiz, E. Aygün (Ankara, Turkey)
A theoretical and experimental investigation of the source–sample–detector geometry for an annular type radioisotope excited XRF spectrometer 367

Yi Changhou, Jin Jannan, Zhang Shuyuan, Wang Ketai, Zhang Dayuan, Zhou Maolun (Chengdu, China)
Astatine-211 labelled proteins and their stability in vivo 377

S. Niese, W. Helbig, H. Kleeberg (Dresden, GDR)
Multi-sample beta–gamma coincidence spectrometry in an underground laboratory 387

J. L. Iriguray, B. Mannou, N. Deschamps, D. Pepin, J. L. Fauquert (Aubiere, Gif-sur-Yvette, Clermont and La Bourboule, France)
Study of arsenic and molybdenum retention in organism during hydrotherapy by neutron activation analysis 393

M. Ashraf Chaudry, Nighat Yasmin, Noor-ul-Islam (Islamabad, Pakistan)
Transport study of V(V), Zn(II) and Be(II) using supported liquid membranes 409

M. Czauderna, M. Rochalska (Warsaw, Poland)
Use of INAA to study the interaction between Ag and Se, Zn, Rb, Fe or Co in mice 425

I. S. El-Yamani, E. N. Abd El-Messieh (Cairo, Egypt)
Extraction of beryllium(II) from iodide solutions by tributyl phosphate 435

A. V. Gorbunov, S. F. Gundorina, T. L. Onischenko, M. V. Frontasyeva (Moscow and Dubna, USSR)
Development of a combined method to carry out a multielement analysis for environment preservation 443

A. E. Mohamed, R. M. Awadallah, A. A. Hassan (Wien, Austria)
Determination of trace elements in Egyptian molasses by instrumental neutron activation analysis 453

Guisun Zhuang, Yinson Wang, Min Zhi, Wei Zhou, Jianhua Yin, Mingguang Tan, Yuandi Cheng (Shanghai, People's Republic of China)
Determination of As, Cd, Hg, Cu and Zn in biological samples by radiochemical neutron activation analysis 459

Bibliographic Collection

E. Bujdosó (Hungary)
Analysis by absorption and scattering of radiation 465

Index to Volume 129 479

Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 129, No. 2 (1989) 483–487

Author Index to Volume 129

ABBAS, R., see MENON, M. P., 133

ABD EL-MESSIEH, E. N., *see* EL-YAMANI, I. S., 435

ADAMEK, A., *see* PRAZSKY, M., 289

AHMAD, MUNIR, *see* SAEED, M. MUFAZZAL, 69

ALFASSI, Z. B., MOSSERI, Sh., FÜRST, W.: Radiation chemistry of CF_3Cl_3 in the gas and liquid phases: effect of dose rate, 43

ALFASSI, Z. B., *see* LAVI, N., 93

ALI, AKBAR, *see* SAEED, M. MUFAZZAL, 69

AL-JOBORI, S. M., KETTANEH, Y. A. H.: Determination of rare earth elements in phosphorites by NAA, 327

AWADALLAH, R. M., *see* MOHAMED, A. E., 453

AYGÜN, E., *see* ZARARSIZ, A., 367

BATRA, R. J., GARG, A. N.: Gamma radiolytic decomposition of solid binary mixtures of potassium nitrate with halides, 155

BATRA, R. J., GARG, A. N.: Thermal neutron activation analysis of Cu in its ores by using an ^{241}Am–Be neutron source, 335

BAZZARRI, S., *see* TESTA, C., 191

BINKA, J., *see* PRAZSKY, M., 289

BUJDOSÓ, E.: Analyisis by nuclear reactions and activation, 207

BUJDOSÓ, E.: Analysis by absorption and scattering of radiation, 465

ČECH, R., *see* PETRU, A., 229

CHAUDRY, M. A.; YASMIN, NIGHAT; NOOR-UL-ISLAM: Transport study of V(V), Zn(II) and Be(II) using supported liquid membranes, 409

CHEEMA, M. N., *see* SAEED, M. MUFAZZAL, 69

CHENG, YUANDI, *see* ZHUANG, GUISUN, 459

CZAUDERNA, M.: Digital method of net peak area determination in activation analysis, 103

CZAUDERNA, M., ROCHALSKA, M.: Use of INAA to study the interaction between Ag and Se, Zn, Rb, Fe or Co in mice, 425

DAMS, R., *see* VANLOO, B., 85

DAWIDOWICZ, A. L., *see* SZCZYPA, J., 171

DESCHAMPS, N., *see* IRIGARAY, J. L., 393

DESIDERI, D., *see* TESTA, C., 191

DRÁBEK, K., *see* KALOUSKOVÁ, J., 59

DYSON, N. A., *see* FAKHOURI, H. G., 163

EL-YAMANI, I. S., ABD EL-MESSIEH, E. N.: Extraction of beryllium(II) from iodide solutions by tributyl phosphate, 435

ERMANS, A. M., *see* VAN GANSBEKE, B., 33

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

FAKHOURI, H. G., DYSON, N. A.: (d,p) reactions and the combination of PIXE–PIGME techniques for the analysis of biomass samples, 163

FAUQUERT, J. L., *see* IRIGARAY, J. L., 393

FRANKO, Š., *see* KANIANSKY, D., 305

FRONTASYEVA, M. V., *see* GORBUNOV, A. V., 443

FUJITANI, T., *see* TERAKADO, Y., 23

FÜRST, W., *see* ALFASSI, Z. B., 43

GANSBEKE, B., VAN *see* VAN GANSBEKE, B., 33

GARG, A. N., *see* BATRA, R. J., 155, 335

GŁOWACKA, M., *see* SAMOCHOCHKA, K., 361

GOLKIEWICZ, P., *see* SZCZYPA, J., 171

GORBUNOV, A. V., GUNDORINA, S. F., ONISCHENKO, T. L., FRONTASYEVA, M. V.: Development of a combined method to carry out a multielement analysis for environment preservation, 443

GULIS, G.: Separation of cesium from intermediate level liquid radioactive waste by solvent extraction with antioxidants, 265

GUNDORINA, S. F., *see* GORBUNOV, A. V., 443

HASSAN, A. A., *see* MOHAMED, A. E., 453

HELBIG, W., *see* NIESE, S., 387

HODÍK, F., *see* KALOUSKOVÁ, J., 59

ILIĆ, Z., *see* VUČIĆ, N., 113

IRIGARAY, J. L., MANNOU, B., DESCHAMPS, N., PEPIN, D., FAUQUERT, J. L.: Study of arsenic and molybdenum retention in organism during hydrotherapy by NAA, 393

JAĆIMOVIĆ, R., *see* JOVANOVIĆ S., 343

JAMES, J., *see* MENON, M. P., 133

JEGHERS, O., *see* VAN GANSBEKE, B., 33

JIN, JANNAN, *see* YI, CHANGHOU, 377

JOVANOVIĆ, S., VUKOTIĆ, P., SMODIŠ, B., JAĆIMOVIĆ, R., MIHALJEVIĆ N., STEGNAR, P.: Epithermal neutron flux characterization of the TRIGA MARK II reactor, Ljubljana, Yugoslavia, for use in NAA, 343

KALOUSKOVÁ, J., DRÁBEK, K., PAVLÍK, L., HODÍK, F.: Radiochemical Separation of ^{75}Se with o-phenylenediamine for INAA of selenium in biological materials, 59

KANIANSKY, D., RAJEC, P., ŠVEC, A., MARÁK, J., KOVAĽ, M., LÚČKA, M., FRANKO, Š., SABANOŠ, G.: On-column radiometric detector for capillary isotachophoresis, 305

KETTANEH, Y. A. H., *see* AL-OBORI, S. M., 327

KLEEBERG, H., *see* NIESE, S., 387

KOCHAN, I. G. *see* SHUKTOMOVA, I. I., 245

KONECKI, J., *see* SAMOCHOCHKA, K., 361

KOPUNEC, R., KOVALANCIK, J.: Separation of cerium and europium by extraction with tributyl phosphate and di(2-ethylhexyl) phosphoric acid in n-alkane from nitrate solution, 295

KORYTA, J., SKALICKÝ, M.: Electrolysis at the interface of two immiscible electrolyte solutions and extraction kinetics, 279

KOSMULSKI, M.: Adsorption of CsOH on controlled porous glasses, 149

KOVAĽ, M., KANIANSKY, D., 305

KOVALANCIK, J., *see* KOPUNEC, R., 295

KURUC, J., *see* PETRU, A., 229

LAVI, N., LUX, F., ALFASSI, Z. B.: Determination of Mg, Al, P, Cu and Mn in biological fluids by NAA, 93

LIRITZIS, Y., MANIATIS, Y.: ESR experiments on quarternary calcites and bones for dating purposes, 3

LÚČKA, M., *see* KANIANSKY, D., 305

LUX, F., *see* LAVI, N., 93

MACÁŠEK, F.: Membrane extraction instead of solvent extraction. What does it give?, 233

MANIATIS, Y., LIRITZIS, Y., 3

MANNOU, B., *see* IRIGARAY, J. L., 393

MARÁK, J., *see* KANIANSKY, D., 305

MELI, M. A., *see* TESTA, C., 191

MENON, M. P., JAMES, J., ABBAS, R.: Solubility products, thermodynamic functions and stability constants for the praseodymium and ytterbium fluoride – water systems, 133

MIHALJEVIĆ, N., *see* JOVANOVIĆ, S., 343

MILJANIĆ, Š. S., *see* RADAK, B. B., 351

MOHAMED, A. E., AWADALLAH, R. M., HASSAN, A. A.: Determination of trace elements in Egyptian molasses by INAA, 453

MOSSERI, Sh., *see* ALFASSI, Z. B., 43

NIESE, S., HELMIG, W., KLEEBERG, H.: Multi–sample beta–gamma coincidence spectrometry in an underground laboratory, 387

NOOR-UL-ISLAM, *see* CHAUDRY, M. A., 409

ONISCHENKO, T. L., *see* GORBUNOV, A. V., 443

PACER, R. A., WEBER, T. J.: The role of ^{210}Pb in evaluating container adsorption of Pb(II) from dilute aqueous solutions, 181

PAVLÍK, L., *see* KALOUSKOVÁ, J., 59

PEPIN, D., *see* IRIGARAY, J. L., 393

PETROVSKA, Lj. T., *see* RADAK, B. B., 351

PETRU, A., RAJEC, P., ČECH, R., KURUC, J. Determination of radiolytic products of two-phase tributylphosphate – water systems by capillary isotachophoresis, 229

PILECKÁ, N., *see* RAKOVIČ, M., 201

PRAZSKY, M., ADAMEK, A., BINKA, J.: Determination of oxidation states of uranium and plutonium in cooling solution of spent fuel element assemblies from NPP A-1, 289

PROCHASKA, K., *see* SZYMANOWSKI, J., 251

QURESHI, I. H., *see* SAEED, M. MUFAZZAL, 69

RADAK, B. B., PETROVSKA, Lj. T., MILJANIĆ, Š. S.: CO_2-laser photoacoustic detection of heavy water vapour. Basic principles, 351

RAJEC, P., *see* KANIANSKY, D., 305

RAJEC, P., *see* PETRU, A., 229

RAKOVIČ M., PILECKÁ, N.: Nuclear interactions used in in vivo activation analysis, 201

ROCHALSKA, M., *see* CZAUDERNA, M., 425

SABANOŠ, G., *see* KANIANSKY, D., 305

SAEED, M. MUFAZZAL; ALI, AKBAR; AHMAD, MUNIR; CHEEMA, M. N., QURESHI, I.H.: Synergic extraction of Pr(III), Ho(III) and Er(III) with a mixture

of 2-thenoyltrifluoroacetone and tribenzylamine, 69

SAMOCHOCHKA, K., KONECKI, J., GŁOWACKA, M.: Effect of L-ascorbic acid on the bioretention of ^{169}Yb, 361

SATO, T.: Volatilization behaviour of ruthenium from boiling nitric acid, 77

SCHOUTENS, A., *see* VAN GANSBEKE, B., 33

SHUKTOMOVA, I. I., KOCHAN, I. G.: Combination of ion exchange and electrodeposition as a method of separation and preconcentration of U and Th isotopes for their alpha-spectrometric determination in rock, soil and plant, 245

SKALICKÝ, M., *see* KORYTA, J., 279

SMODIŠ, B., *see* JOVANOVIĆ, S., 343

SPRYCHA, R., *see* SZCZYPA, J., 171

STEGNAR, P., *see* JOVANOVIĆ , S., 343

STRIJCKMANS, K., *see* VANLOO, B., 85

ŠVEC, A., *see* KANIANSKY, D., 305

SZCZYPA, J., DAWIDOWICZ, A. L., SPRYCHA, R., GOLKIEWICZ, P.: Investigation of electrical properties of the electrical double layer on porous glasses, 171

SZYMANOWSKY, J., PROCHASKA, K.: Interfacial activity of hydroxyoximes and the reaction order of copper extraction in toluene/water system, 251

TAKADA, J., *see* TERAKADO, Y., 23

TAN, MINGGUANG, *see* ZHUANG, GUISUN, 459

TERAKADO, Y., FUJITANI, T., TAKADA, J.: Precise determination of rare earth elements in rocks by NAA, 23

TESTA, C., DESIDERI, D., MELI, M. A., BAZZARRI, S.: Separation and determination of uranium and radium-226 in phosphorites and their industrial derivatives by extraction chromatography, 191

TIMUĽÁK, J.: Effect of solidified salts on ^{137}Cs leaching from bituminized products, 273

VAN GANSBEKE, B., JEGHERS, O., ERMANS, A. M., SCHOUTENS, A.: Paper and ITLC chromatography of ^{99m}Tc radiopharmaceuticals: an explanation for some artefacts, 33

VANLOO, B., STRIJCKMANS, K., DAMS, R.: Determination of nickel in copper by proton activation analysis, 85

VUČIĆ, N., ILIĆ, Z.: Extraction and spectrophotometric determination of uranium in phosphate fertilizers, 113

VUKOTIĆ, P., *see* JOVANOVIĆ, S., 343

WADA, N.: On-stream measurement of heavy water concentration by intermediate neutron moderation, 121

WANG, KETAI, *see* YI, CHANGHOU, 377

WANG, YINSON, *see* ZHUANG, GUISUN, 459

WEBER, T. J., *see* PACER, R. A., 181

YASMIN, NIGHAT, *see* CHAUDRY, M. A., 409

YI, CHANGHOU; JIN, JANNAN; ZHANG, SHUYUAN; WANG, KETAI; ZHANG, DAYUAN; ZHOU, MAOLUN: Astatine-211 labelled proteins and their stability in vivo, 377

YIN, JIANHUA, *see* ZHUANG, GUISUN, 459

ZARARSISZ, A., AYGÜN, E.: A theoretical and experimental investigation of the source–sample–detector geometry for an

annular type radioisotope excited XRF spectrometer, 367

ZHANG, DAYUAN, *see* YI, CHANGHOU, 37

ZHANG, SHUYUAN, *see* YI, CHANGHOU, 377

ZHI, MIN, *see* ZHUANG, GUISUN, 459

ZHOU, MAOLUN, *see* YI, CHANGHOU, 377

ZHOU, WEI, *see* ZHUANG, GUISUN, 459

ZHUANG, GUISUN; WANG, YINSON; ZHOU, WEI; YIN, JIANHUA; TAN, MINGGUANG; CHENG, YUANDI: Determination of As, Cd, Hg, Cu and Zn in biological samples by radiochemical NAA, 459